



Department of Finance
Purchasing Division

Two Centennial Plaza
805 Central Avenue, Suite 234
Cincinnati, Ohio 45202-1947

C O R R E C T I O N

Reginald E. Zeno
Director of Finance

Patrick Duhaney
Chief Procurement Officer
City Purchasing Agent

DATE 01/22/2016

BUYER Nathan Dronen

CORRECTION NUMBER 1

ORIGINAL INVITATION DATE 01/13/2016

Your attention is called on an "Invitation to Bid" mailed from this office under the below reference number and on which it is found necessary to make the following correction.

This correction should be considered in submitting your proposal and should be attached to the original "Invitation to Bid" and made a part thereof.

<u>ITEM DESCRIPTION</u>	<u>REFERENCE NUMBER</u>	<u>BIDS DUE 12:00PM EST</u>
TROD – Nine (9) Cab & Chassis for Snow Removal	162P901208	01/27/2016

- 1) Hereby delete all Specifications from the Bid Document and replace with the attached Specification and City Standard Specifications.**
- 2) The Bid Closing remains 1/27/2016 at 12:00PM ET**

Comm. Code	Description	Qty.
070-47	FREIGHTLINER M2 106 SINGLE AXLE CAB AND CHASSIS OR APPROVED EQUAL PER DETAILED SPEC-LINE #1	7
070-47	FREIGHTLINER M2 106 TANDEM CAB AND CHASSIS OR APPROVED EQUAL PER DETAILED SPEC - LINE#2	2

COMMODITY LINE #1 SPECIFICATION:

FREIGHTLINER M2 106 SINGLE AXLE CAB AND CHASSIS OR APPROVED EQUAL

Detailed Specifications:

The City of Cincinnati is seeking bids for a current model year (2015 or later) Freightliner M2 106 Cab and Chassis or approved equal substitution.

These units will be used for snow removal trucks to be upfit outfitted (not as part of this contract) with equipment listed below or approved equal:

- Henderson 10' Tub Style Dump Body & Cab Shield or approved equal
- Hydraulic Pump Bosch Rexroth PTO Mounted (A17VO080DRS00/11NRWK0E810-0)
- Gledhill 10HSJPR2-LL-QCP snow plow Straight Full Roll Type, Power Angling Cylinders with Couplers and Caps
- Mailhot model CS90-4.5-3 double acting telescopic hoist (NTEA Class 50, 21.5 ton capacity) with 4" subframe
- Stainless Steel Full Size Replacement Tailgate Spreader with Twin Spinners that run simultaneously
- Bosch Rexroth ##CS-CIS-PUH-14.2 Calcium Chloride pre-wetting system
- On-Spot Auto-6-Length tire chain system
- Holland T-90 pintle hook

All cab & chassis bid MUST be able to support and run all items listed.

COMPLY

Yes No

General Specifications:

All units MUST meet City of Cincinnati general specifications SPEC. No.

8-101-05 – AUTOMOTIVE TRUCK BODIES GENERAL

SPECIFICATIONS & SPEC No. 8-103-05 – AUTOMOTIVE TRUCK DUMP BODIES.

DIAGNOSTIC SOFTWARE

Availability:

Yes

No

Vendor/Manufacturer will furnish to the City of Cincinnati (whether for free or for purchase) all diagnostic software needed to make an analysis of vehicle performance and read error codes in order to diagnose issues with the vehicle. Failure to grant this access with result in the bid being rejected.

Description	COMPLY		LIST DEVIATION
	YES	NO	
Price Level			
M2 PRL-10M (EFF:02/11/15)			
Data Version			
SPECPRO21 DATA RELEASE VER 001			
Vehicle Configuration			
M2 106 CONVENTIONAL CHASSIS			
2016 MODEL YEAR SPECIFIED			
SET BACK AXLE - TRUCK			
TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK			
LH PRIMARY STEERING LOCATION			
General Service			
TRUCK/TRAILER CONFIGURATION			
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
CONSTRUCTION SERVICE			
GOVERNMENT BUSINESS SEGMENT			
DIRT/SAND/ROCK COMMODITY			
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
MAXIMUM 8% EXPECTED GRADE			
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
MEDIUM TRUCK WARRANTY			
EXPECTED FRONT AXLE(S) LOAD : 14600.0 lbs			
EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs			
EXPECTED PUSHER AXLE(S) LOAD : 0.0 lbs			
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 37600.0 lbs			
EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs			
Truck Service			
FRONT PLOW/END DUMP BODY			
EXPECTED TRUCK BODY LENGTH : 10.0 ft			
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in			
Tractor Service			
FLATBED TRAILER			
SINGLE (1) TRAILER			
Engine			
CUM ISL 300 HP @ 2000 RPM, 2200 GOV RPM, 860 LB/FT @ 1300 RPM			
Electronic Parameters			
65 MPH ROAD SPEED LIMIT			
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			
CUMMINS TRIP INFORMATION REPORTS ENABLED; LEVEL 1: 4 MPH, LEVEL 2: 7 MPH ABOVE ROAD SPEED LIMIT			
PTO MODE ENGINE RPM LIMIT - 1100 RPM			
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			
PTO RPM WITH CRUISE SET SWITCH - 700 RPM			

PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			
PTO MODE CANCEL VEHICLE SPEED - 0 MPH			
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			
PTO MINIMUM RPM - 700			
REGEN INHIBIT SPEED THRESHOLD - 5 MPH			
Engine Equipment			
2015 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14			
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)			
STANDARD OIL PAN			
ENGINE MOUNTED OIL CHECK AND FILL			
ONE PIECE VALVE COVER			
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER			
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			
(2) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 1900 CCA THREADED STUD BATTERIES, NON FCCC ONLY			
BATTERY BOX FRAME MOUNTED			
STANDARD BATTERY JUMPERS			
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			
NON-POLISHED BATTERY BOX COVER			
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT			
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER			
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			
STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			
AIR COMPRESSOR DISCHARGE LINE			
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM			
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH, ACTIVATES STOP LAMPS			
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE			
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			
10 FOOT 00 INCH (120 INCH+0/-5 INCH) EXHAUST SYSTEM HEIGHT			
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			
6 GALLON DIESEL EXHAUST FLUID TANK			
100 PERCENT DIESEL EXHAUST FLUID FILL			
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			

STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			
STANDARD DIESEL EXHAUST FLUID TANK CAP			
ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD(S)			
HORTON DRIVEMASTER ON/OFF FAN DRIVE			
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			
CUMMINS SPIN ON FUEL FILTER			
COMBINATION FULL FLOW/BYPASS OIL FILTER			
1100 SQUARE INCH ALUMINUM RADIATOR			
ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT			
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			
RADIATOR DRAIN VALVE			
NO RADIATOR/OIL PAN GUARD			
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER			
BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			
ALUMINUM FLYWHEEL HOUSING			
ELECTRIC GRID AIR INTAKE WARMER			
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER			
Transmission			
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			
Transmission Equipment			
ALLISON VOCATIONAL PACKAGE 146 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS			
ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED			
VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BACK OF CAB			
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			
CUSTOMER INSTALLED CHELSEA 277 SERIES PTO			
PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION			
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			
TRANSMISSION PROGNOSTICS - ENABLED 2013			

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			
Front Axle and Equipment			
DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE			
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
NON-ASBESTOS FRONT BRAKE LINING			
MERITOR CAST IRON FRONT BRAKE DRUMS			
FRONT BRAKE DUST SHIELDS			
SKF SCOTSEAL PLUS XL FRONT OIL SEALS			
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			
STANDARD SPINDLE NUTS FOR ALL AXLES			
HALDEX AUTOMATIC FRONT SLACK ADJUSTERS			
TRW TAS-85 POWER STEERING			
POWER STEERING PUMP			
2 QUART SEE THROUGH POWER STEERING RESERVOIR			
SYNTHETIC 75W-90 FRONT AXLE LUBE			
Front Suspension			
16,000# FLAT LEAF FRONT SUSPENSION			
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			
FRONT SHOCK ABSORBERS			
Rear Axle and Equipment			
RS-23-161 23,000# R-SERIES SINGLE REAR AXLE			
6.14 REAR AXLE RATIO			
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES			
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE			
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			
BLINKING LAMP WITH EACH MODE SWITCH, DIF FERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH, DEACTIVATE >25 MPH			
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
NON-ASBESTOS REAR BRAKE LINING			
BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)			
CONMET CAST IRON REAR BRAKE DRUMS			
REAR BRAKE DUST SHIELDS			
SKF SCOTSEAL PLUS XL REAR OIL SEALS			
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS			
HALDEX AUTOMATIC REAR SLACK ADJUSTERS			
SYNTHETIC 75W-90 REAR AXLE LUBE			

Rear Suspension			
30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD			
SPRING SUSPENSION - NO AXLE SPACERS			
STANDARD U-BOLT PAD			
Brake System			
AIR BRAKE PACKAGE			
WABCO 4S/4M ABS WITH TRACTION CONTROL			
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			
FIBER BRAID PARKING BRAKE HOSE			
STANDARD BRAKE SYSTEM VALVES			
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			
STD U.S. FRONT BRAKE VALVE			
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			
BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER			
AIR DRYER MOUNTED INBOARD ON LH RAIL			
ALUMINUM AIR BRAKE RESERVOIRS			
CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD			
BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK			
Trailer Connections			
AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS			
PRIMARY CONNECTOR/RECEPTACLE WIRED FOR COMBINATION STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE			
SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME			
UPGRADED CHASSIS MULTIPLEXING UNIT			
UPGRADED BULKHEAD MULTIPLEXING UNIT			
Wheelbase & Frame			
3825MM (151 INCH) WHEELBASE			
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI			
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW			
1650MM (65 INCH) REAR FRAME OVERHANG			
FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 85.45 in			
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 82.45 in			
CALC'D FRAME LENGTH - OVERALL : 245.39			
CALC'D SPACE AVAILABLE FOR DECKPLATE : 85.45 in			
CALCULATED FRAME SPACE LH SIDE : 120.75 in			
CALCULATED FRAME SPACE RH SIDE : 89.06 in			
SQUARE END OF FRAME			
FRONT CLOSING CROSSMEMBER			
LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER			
STANDARD MIDSHIP #1 CROSSMEMBER(S)			

STANDARD REARMOST CROSSMEMBER			
STANDARD SUSPENSION CROSSMEMBER			
Chassis Equipment			
THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS			
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS			
GRADE 8 THREADED HEX HEADED FRAME FASTENERS			
Fuel Tanks			
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH			
RECTANGULAR FUEL TANK(S)			
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			
FUEL TANK(S) FORWARD			
POLISHED STAINLESS STEEL STEP FINISH			
FUEL TANK CAP(S)			
ALLIANCE FUEL FILTER/WATER SEPARATOR WITH HEATED BOWL AND PRIMER PUMP			
EQUIFLO INBOARD FUEL SYSTEM			
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
Tires			
MICHELIN XZY-3 315/80R22.5 20 PLY RADIAL FRONT TIRES			
MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES			
Hubs			
CONMET PRESET PLUS IRON FRONT HUBS			
CONMET PRESET PLUS IRON REAR HUBS			
Wheels			
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS			
ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS			
FRONT WHEEL MOUNTING NUTS			
REAR WHEEL MOUNTING NUTS			
Cab Exterior			
106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			
AIR CAB MOUNTS			
2-1/2 INCH FENDER EXTENSIONS			
LH AND RH GRAB HANDLES			
STATIONARY PAINTED FULL GRILLE FOR CHASSIS WITHOUT INTEGRAL FRONT FRAME EXTENSIONS			
CHROME HOOD MOUNTED AIR INTAKE GRILLE			
FIBERGLASS HOOD			
TUNNEL/FIREWALL LINER			
SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK			
SINGLE ELECTRIC HORN			
SINGLE HORN SHIELD			
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1013			
REAR LICENSE PLATE MOUNT END OF FRAME			
INTEGRAL HEADLIGHT/MARKER ASSEMBLY			
LED AERODYNAMIC MARKER LIGHTS			

DAYTIME RUNNING LIGHTS - LOW BEAM ONLY			
INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME			
STANDARD FRONT TURN SIGNAL LAMPS			
DUAL WEST COAST MOLDED-IN COLOR MIRRORS			
DOOR MOUNTED MIRRORS			
102 INCH EQUIPMENT WIDTH			
LH AND RH 8 INCH MOLDED-IN COLOR CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			
STANDARD SIDE/REAR REFLECTORS			
63X14 INCH TINTED REAR WINDOW			
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			
MANUAL DOOR WINDOW REGULATORS			
1-PIECE TINTED CURVED BONDED WINDSHIELD WITH HEATED WIPER BLADE PARK AREAS			
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			
Cab Interior			
OPAL GRAY VINYL INTERIOR			
MOLDED PLASTIC DOOR PANEL			
MOLDED PLASTIC DOOR PANEL			
BLACK MATS WITH SINGLE INSULATION			
DASH MOUNTED ASH TRAYS AND LIGHTER			
IN DASH STORAGE BIN			
LH DOOR MAP POCKET			
(2) CUP HOLDERS LH AND RH DASH			
GRAY/CHARCOAL FLAT DASH			
SMART SWITCH EXPANSION MODULE			
HEATER, DEFROSTER AND AIR CONDITIONER			
STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			
STANDARD HEATER PLUMBING			
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR			
BINARY CONTROL, R-134A			
PREMIUM INSULATION			
SOLID-STATE CIRCUIT PROTECTION AND FUSES			
12V NEGATIVE GROUND ELECTRICAL SYSTEM			
DOVE DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF			
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			
(1) 12 VOLT POWER SUPPLY IN DASH			
BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION			
2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT WITH HEADRESTS			
INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST			
LH AND RH INTEGRAL DOOR PANEL ARMRESTS			
VINYL WITH VINYL INSERT DRIVER SEAT			
VINYL WITH VINYL INSERT PASSENGER SEAT			

3 POINT DRIVER AND PASSENGER AND 2 POINT CENTER FRONT SEAT BELT RETRACTORS			
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			
18 INCH (450MM) STEERING WHEEL			
Instruments & Controls			
GRAY DRIVER INSTRUMENT PANEL			
GRAY CENTER INSTRUMENT PANEL			
BLACK GAUGE BEZELS			
LOW AIR PRESSURE LIGHT AND BUZZER			
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			
PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM			
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH			
2 INCH ELECTRIC FUEL GAUGE			
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP FOR CUSTOMER INSTALLED PTO			
NO LANE DEPARTURE WARNING SYSTEM			
ELECTRIC ENGINE OIL PRESSURE GAUGE			
OVERHEAD INSTRUMENT PANEL			
AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939			
DASH MOUNTED RADIO			
(2) RADIO SPEAKERS IN CAB			
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			
POWER AND GROUND WIRING PROVISION			
CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION			
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			
STANDARD VEHICLE SPEED SENSOR			
ELECTRONIC 3000 RPM TACHOMETER			
IDLE LIMITER, ELECTRONIC ENGINE			
THREE IGNITION CONTROLLED EXTRA SWITCHES WITH INDICATOR LIGHT, 20 AMPS, WIRED TOBACK OF CAB			
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH			
BW TRACTOR PROTECTION VALVE			
TRAILER HAND CONTROL BRAKE VALVE			
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY PROGRAMMED TO SLOWEST SPEED WITH PARK BRAKE SET AND ARCTIC BLADES			
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND SINGLE CONNECTOR AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS			
TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			
Design			
PAINT: ONE SOLID COLOR			
Color			
CAB COLOR A: L0006EB WHITE ELITE BC			
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			
NO FUEL TANK CABINET PAINT			
POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
BUMPER PAINT: N0001EA BLACK ELITE SS			
Certification / Compliance			
U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			
Secondary Factory Options			
DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE			

WARRANTY

		Months	Miles
Basic:	Basic Vehicle Warranty	_____	_____
	Frame Side Rails	_____	_____
	Cab/Cowl Structure	_____	_____
Chassis:	Cab/Cowl Perforation Corrosion	_____	_____
	Hood/Cab Paint	_____	_____
	Engine		_____

Mechanical:	Drivetrain	_____	_____
	Axis	_____	_____
	Extended warranty coverage		_____

Extended:	<i>Extended warranty terms and conditions shall be included with this bid.</i> CHOICE EXTENDED COVERAGE, 5 YEARS,50,000 MILES/80 000 KM		
	Cost Extended Warranty	\$ _____	

**COMMODITY LINE #2 SPECIFICATION:
FREIGHTLINER M2 106 TANDEM CAB AND CHASSIS OR APPROVED
EQUAL**

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LH PRIMARY STEERING LOCATION			
General Service			
TRUCK/TRAILER CONFIGURATION			
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
CONSTRUCTION SERVICE			
GOVERNMENT BUSINESS SEGMENT			
DIRT/SAND/ROCK COMMODITY			
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
MAXIMUM 8% EXPECTED GRADE			
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
MEDIUM TRUCK WARRANTY			
EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs			
EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs			
EXPECTED PUSHER AXLE(S) LOAD : 0.0 lbs			
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 58000.0 lbs			
EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs			
Truck Service			
FRONT PLOW/END DUMP BODY			
EXPECTED TRUCK BODY LENGTH : 14.0 ft			
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in			
Tractor Service			
FLATBED TRAILER			
SINGLE (1) TRAILER			
Engine			
CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM			
Electronic Parameters			
65 MPH ROAD SPEED LIMIT			
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			
CUMMINS TRIP INFORMATION REPORTS ENABLED; LEVEL 1: 4 MPH, LEVEL 2: 7 MPH ABOVE ROAD SPEED LIMIT			
PTO MODE ENGINE RPM LIMIT - 1100 RPM			
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			
PTO RPM WITH CRUISE SET SWITCH - 700 RPM			

PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			
PTO MODE CANCEL VEHICLE SPEED - 0 MPH			
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			
PTO MINIMUM RPM - 700			
REGEN INHIBIT SPEED THRESHOLD - 5 MPH			
Engine Equipment			
2015 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14			
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)			
STANDARD OIL PAN			
ENGINE MOUNTED OIL CHECK AND FILL			
ONE PIECE VALVE COVER			
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER			
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			
(2) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 1900 CCA THREADED STUD BATTERIES, NON FCCC ONLY			
BATTERY BOX FRAME MOUNTED			
STANDARD BATTERY JUMPERS			
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			
NON-POLISHED BATTERY BOX COVER			
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT			
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER			
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			
STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			
AIR COMPRESSOR DISCHARGE LINE			
ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM			
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH, ACTIVATES STOP LAMPS			
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE			
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			
10 FOOT 00 INCH (120 INCH+0/-5 INCH) EXHAUST SYSTEM HEIGHT			
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			
6 GALLON DIESEL EXHAUST FLUID TANK			
100 PERCENT DIESEL EXHAUST FLUID FILL			
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			

STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			
STANDARD DIESEL EXHAUST FLUID TANK CAP			
ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)			
HORTON DRIVEMASTER ON/OFF FAN DRIVE			
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			
CUMMINS SPIN ON FUEL FILTER			
COMBINATION FULL FLOW/BYPASS OIL FILTER			
1100 SQUARE INCH ALUMINUM RADIATOR			
ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT			
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			
RADIATOR DRAIN VALVE			
NO RADIATOR/OIL PAN GUARD			
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER			
BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			
ALUMINUM FLYWHEEL HOUSING			
ELECTRIC GRID AIR INTAKE WARMER			
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER			
Transmission			
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			
Transmission Equipment			
ALLISON VOCATIONAL PACKAGE 146 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS			
ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 3, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED			
VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BACK OF CAB			
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			
CUSTOMER INSTALLED CHELSEA 277 SERIES PTO			
PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION			
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			
TRANSMISSION PROGNOSTICS - ENABLED 2013			

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			
Front Axle and Equipment			
DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE			
MERITOR 16.5X6 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
NON-ASBESTOS FRONT BRAKE LINING			
CONMET CAST IRON FRONT BRAKE DRUMS			
FRONT BRAKE DUST SHIELDS			
SKF SCOTSEAL PLUS XL FRONT OIL SEALS			
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			
STANDARD SPINDLE NUTS FOR ALL AXLES			
BENDIX VERSAJUST AUTOMATIC FRONT SLACK ADJUSTERS			
TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR			
POWER STEERING PUMP			
4 QUART POWER STEERING RESERVOIR			
OIL/AIR POWER STEERING COOLER			
SYNTHETIC 75W-90 FRONT AXLE LUBE			
Front Suspension			
20,000# FLAT LEAF FRONT SUSPENSION			
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			
FRONT SHOCK ABSORBERS			
Rear Axle and Equipment			
MT-40-14XP 40,000# R-SERIES TANDEM REAR AXLE			
6.14 REAR AXLE RATIO			
IRON REAR AXLE CARRIER WITH OPTIONAL HEAVY DUTY AXLE HOUSING			
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES			
MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			
DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES			
(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE			
BLINKING LAMP WITH EACH MODE SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF			
BUZZER AND BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
NON-ASBESTOS REAR BRAKE LINING			
ASPHALT SPREADER CLEARANCE REAR BRAKE GEOMETRY			

CONMET CAST IRON REAR BRAKE DRUMS			
REAR BRAKE DUST SHIELDS			
SKF SCOTSEAL PLUS XL REAR OIL SEALS			
HALDEX GOLDSEAL LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS			
BENDIX VERSAJUST AUTOMATIC REAR SLACK ADJUSTERS			
SYNTHETIC 75W-90 REAR AXLE LUBE			
Rear Suspension			
HENDRICKSON HAULMAAX REAR SUSPENSION @ 40,000#			
HENDRICKSON HAULMAAX/ULTIMAAX - 10.50" RIDE HEIGHT			
54 INCH AXLE SPACING			
HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN			
FORE/AFT AND TRANSVERSE CONTROL RODS			
Brake System			
AIR BRAKE PACKAGE			
WABCO 4S/4M ABS WITH TRACTION CONTROL			
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			
FIBER BRAID PARKING BRAKE HOSE			
STANDARD BRAKE SYSTEM VALVES			
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			
STD U.S. FRONT BRAKE VALVE			
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			
BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER			
AIR DRYER MOUNTED INBOARD ON LH RAIL			
ALUMINUM AIR BRAKE RESERVOIRS			
CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD			
BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK			
Trailer Connections			
AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS			
PRIMARY CONNECTOR/RECEPTACLE WIRED FOR COMBINATION STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE			
SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME			
UPGRADED CHASSIS MULTIPLEXING UNIT			
UPGRADED BULKHEAD MULTIPLEXING UNIT			
Wheelbase & Frame			
4700MM (185 INCH) WHEELBASE			
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI			
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW			
1650MM (65 INCH) REAR FRAME OVERHANG			
FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 119.45 in			
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 116.45 in			

CALC'D FRAME LENGTH - OVERALL : 279.39			
CALC'D SPACE AVAILABLE FOR DECKPLATE : 119.45 in			
CALCULATED FRAME SPACE LH SIDE : 115.54 in			
CALCULATED FRAME SPACE RH SIDE : 83.85 in			
SQUARE END OF FRAME			
FRONT CLOSING CROSSMEMBER			
LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER			
STANDARD MIDSHIP #1 CROSSMEMBER(S)			
STANDARD REARMOST CROSSMEMBER			
STANDARD SUSPENSION CROSSMEMBER			
Chassis Equipment			
THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS			
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS			
GRADE 8 THREADED HEX HEADED FRAME FASTENERS			
Fuel Tanks			
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH			
RECTANGULAR FUEL TANK(S)			
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			
FUEL TANK(S) FORWARD			
POLISHED STAINLESS STEEL STEP FINISH			
FUEL TANK CAP(S)			
ALLIANCE FUEL FILTER/WATER SEPARATOR WITH HEATED BOWL AND PRIMER PUMP			
EQUIFLO INBOARD FUEL SYSTEM			
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
Tires			
MICHELIN XZY-3 315/80R22.5 20 PLY RADIAL FRONT TIRES			
MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES			
Hubs			
CONMET PRESET PLUS IRON FRONT HUBS			
CONMET PRESET PLUS IRON REAR HUBS			
Wheels			
ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS			
ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS			
FRONT WHEEL MOUNTING NUTS			
REAR WHEEL MOUNTING NUTS			
Cab Exterior			
106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			
AIR CAB MOUNTS			
2-1/2 INCH FENDER EXTENSIONS			
LH AND RH GRAB HANDLES			
STATIONARY PAINTED FULL GRILLE FOR CHASSIS WITHOUT INTEGRAL FRONT FRAME EXTENSIONS			
CHROME HOOD MOUNTED AIR INTAKE GRILLE			
FIBERGLASS HOOD			
TUNNEL/FIREWALL LINER			

SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK			
SINGLE ELECTRIC HORN			
SINGLE HORN SHIELD			
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1013			
REAR LICENSE PLATE MOUNT END OF FRAME			
INTEGRAL HEADLIGHT/MARKER ASSEMBLY			
LED AERODYNAMIC MARKER LIGHTS			
DAYTIME RUNNING LIGHTS - LOW BEAM ONLY			
INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME			
STANDARD FRONT TURN SIGNAL LAMPS			
DUAL WEST COAST MOLDED-IN COLOR MIRRORS			
DOOR MOUNTED MIRRORS			
102 INCH EQUIPMENT WIDTH			
LH AND RH 8 INCH MOLDED-IN COLOR CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			
STANDARD SIDE/REAR REFLECTORS			
63X14 INCH TINTED REAR WINDOW			
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			
MANUAL DOOR WINDOW REGULATORS			
1-PIECE TINTED CURVED BONDED WINDSHIELD WITH HEATED WIPER BLADE PARK AREAS			
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			
Cab Interior			
OPAL GRAY VINYL INTERIOR			
MOLDED PLASTIC DOOR PANEL			
MOLDED PLASTIC DOOR PANEL			
BLACK MATS WITH SINGLE INSULATION			
DASH MOUNTED ASH TRAYS AND LIGHTER			
IN DASH STORAGE BIN			
LH DOOR MAP POCKET			
(2) CUP HOLDERS LH AND RH DASH			
GRAY/CHARCOAL FLAT DASH			
SMART SWITCH EXPANSION MODULE			
HEATER, DEFROSTER AND AIR CONDITIONER			
STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			
STANDARD HEATER PLUMBING			
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR			
BINARY CONTROL, R-134A			
PREMIUM INSULATION			
SOLID-STATE CIRCUIT PROTECTION AND FUSES			
12V NEGATIVE GROUND ELECTRICAL SYSTEM			
DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF			
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			
(1) 12 VOLT POWER SUPPLY IN DASH			

BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION			
2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT WITH HEADRESTS			
INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST			
LH AND RH INTEGRAL DOOR PANEL ARMRESTS			
VINYL WITH VINYL INSERT DRIVER SEAT			
VINYL WITH VINYL INSERT PASSENGER SEAT			
3 POINT DRIVER AND PASSENGER AND 2 POINT CENTER FRONT SEAT BELT RETRACTORS			
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			
4-SPOKE 18 INCH (450MM) STEERING WHEEL			
DRIVER AND PASSENGER INTERIOR SUN VISORS			
Instruments & Controls			
GRAY DRIVER INSTRUMENT PANEL			
GRAY CENTER INSTRUMENT PANEL			
BLACK GAUGE BEZELS			
LOW AIR PRESSURE LIGHT AND BUZZER			
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			
PRECO 1040 87 DB TO 112 DB AUTOMATIC SELF-ADJUSTING BACKUP ALARM			
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH			
2 INCH ELECTRIC FUEL GAUGE			
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP FOR CUSTOMER INSTALLED PTO			
NO LANE DEPARTURE WARNING SYSTEM			
ELECTRIC ENGINE OIL PRESSURE GAUGE			
OVERHEAD INSTRUMENT PANEL			
AM/FM/WB RADIO WITH BLUETOOTH AND MICROPHONE, FRONT USB PORT, FRONT AND REAR AUXILIARY INPUTS AND J1939			
DASH MOUNTED RADIO			
(2) RADIO SPEAKERS IN CAB			
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			
POWER AND GROUND WIRING PROVISION			
CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION			

ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			
STANDARD VEHICLE SPEED SENSOR			
ELECTRONIC 3000 RPM TACHOMETER			
IDLE LIMITER, ELECTRONIC ENGINE			
THREE IGNITION CONTROLLED EXTRA SWITCHES WITH INDICATOR LIGHT, 20 AMPS, WIRED TOBACK OF CAB			
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH			
BW TRACTOR PROTECTION VALVE			
TRAILER HAND CONTROL BRAKE VALVE			
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W ITH DELAY PROGRAMMED TO SLOWEST SPEED WITH PARK BRAKE SET AND ARCTIC BLADES			
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH AND SINGLE CONNECTOR AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS, LOW BEAMS OFF WITH HIGH BEAMS			
TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			
Design			
PAINT: ONE SOLID COLOR			
Color			
CAB COLOR A: L0006EB WHITE ELITE BC			
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			
NO FUEL TANK CABINET PAINT			
POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
BUMPER PAINT: N0001EA BLACK ELITE SS			
Certification / Compliance			
U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			
Secondary Factory Options			
DEALER HAS BEEN ADVISED OF AND ACCEPTED RESPONSIBILITY FOR MODIFICATIONS DUE TO POSSIBLE PTO/CHASSIS INTERFERENCE			

WARRANTY

		Months	Miles
Basic:	Basic Vehicle Warranty	_____	_____
	Frame Side Rails	_____	_____
	Cab/Cowl Structure	_____	_____
Chassis:	Cab/Cowl Perforation Corrosion	_____	_____
	Hood/Cab Paint	_____	_____
	Engine		_____

Mechanical:	Drivetrain	_____	_____
	Axis	_____	_____
	Extended warranty coverage		_____

Extended:	<i>Extended warranty terms and conditions shall be included with this bid.</i>		
	CHOICE EXTENDED COVERAGE, 5 YEARS,50,000 MILES/80 000 KM		
	Cost Extended Warranty	\$	_____

1. GENERAL REQUIREMENTS

1.1 SCOPE

This specification covers the General Specifications applicable to all automotive truck bodies regardless of size, type, allied equipment and accessories

For easy reference, paragraph numbers in this specification correspond with paragraph numbers in other City Specifications which contain the Detailed Specifications and which must be used in conjunction with this specification.

1.2 MANDATORY REQUIREMENT TERMS

The terms "shall", "must", etc., which have been omitted for conciseness, shall apply to all requirements unless otherwise modified.

1.3 REFERENCES TO OTHER SPECIFICATIONS

Latest revision in effect on the date of the bid document governs, except as modified herein.

City Specification Numbers refer to specifications issued by the City

ANSI numbers refer to standards of the American National Standard Institute, Inc., New York, New York, 10018

SAE numbers refer to specifications issued by the Society of Automotive Engineers, New York, New York, 10017

FED refers to Federal Specification Standards issued by U.S. Government, General Services Administration, offices in most principal cities.

1.4 SPECIFIED

"Specified" herein means "specified in invitation to bid and/or order or contract."

1.5 GUARANTEE - EXCLUDING OIL FILTERS AND LAMPS

Free parts replacement and installation due to failure of defective material or workmanship within one year of acceptance, or manufacturer's standard warranty, whichever is greater.

Warrant performance as advertised, and suitability for intended use.

1.6 MODEL - QUALITY PARTS

New or latest product model with latest standard equipment including items specified.

Proven in service; experimental or untried equipment not acceptable.

Fabricated in a first-class workmanlike manner from good quality material applicable to service intended, requiring a minimum of maintenance.

Parts available without undue delay.

1.7 OHIO STATE AND OSHA SAFETY REQUIREMENTS

Guarantee compliance with those in effect on date of bid document, and defend and hold harmless from all claims, fines, levies, and judgments if equipment without modification is properly used and maintained.

1.8 MISCELLANEOUS

Vehicle, components, including accessory mountings, parts connectors, and adjustments in accordance with SAE Standards and Recommended Practices, applicable Federal Motor Vehicle Safety Standards, State of Ohio Motor Vehicle Laws and City of Cincinnati Ordinances.

2. DETAILED REQUIREMENTS

2.1 DESIGN, TYPE, SIZE AND CAPACITY

In accordance with drawings and/or details specified.

2.2 CONSTRUCTION

Welded with understructure welded to shell.

Welds present a firm bond between parent metals and free of scale.

2.3 METAL

Unless otherwise specified, low alloy high tensile steel Grade 50 in accordance with ASTM A607.

Steel gauges specified are U.S. steel gauges and are minimums.

2.4 CONTROLS

Conveniently located where specified or required for proper and efficient operation.

2.5 POWER TAKE OFF

Install where specified or required for proper operation. Equipped with anti-friction bearings on all shafts.

Preferred maximum length of drive shaft from power take off to pump 36 inches.

Any shaft exceeding 36 inches must be approved by Fleet Services Manager or his/her designee prior to supplying the vehicle.

2.6 HYDRAULIC SYSTEM

Install necessary hydraulic pumps, motors, valves, piping, tubing and connectors.

All fluid reservoirs shall have shut off valve to prevent draining during servicing. An exception to this may be allowed in those installations where the valve would serve no useful purpose. Vendor must submit request to omit this valve as an option in bid submittal, for review by Fleet Services.

2.7 ELECTRICAL SYSTEM

Exposed wiring run through loom or vinyl taped in accordance with best commercial practice.

2.8 CLEARANCES

When truck is fully and evenly loaded, skid chain radial clearance in accordance with SAE No. J 683, or at least 4 inches, whichever is greater.

Minimum four inches lateral clearance inside tires.

If rear bumper is specified, bottom of bumper at least 15 inches above ground when truck is fully and evenly loaded.

Provide clearance or access ports with easily removed and replaced caps to permit removal of other chassis components for service.

2.9 SPLASH GUARDS

If required by law, install quality splash guards (mud flaps), all black with a grommet on bottom and a hook on body to permit fastening guards in a raised position.

No lettering or advertising on the splash guards.

2.10 MANUFACTURER'S AND DEALER'S EMBLEMS Maximum area 25 square inches.

2.11 PARTS LISTS AND MANUALS

For each model number furnish two copies: Complete parts list
Shop repair and maintenance manual Operating instruction manual

For each piece of equipment, furnish one operating instruction manual.

2.12 CHASSIS AND CAB

Contractor solely responsible for fuel tanks etc., and for chassis modifications to accommodate installation of body, allied equipment or accessories, and to comply with respective manufacturer's minimum chassis recommendations without affecting vehicle warranty.

Attachment to frame by means of bolt straps, brackets, angle clips, U bolts or equivalent method approved by chassis, body and accessory manufacturers.

Install oak sills full length on top of frame rails. Oak sills not required if frame rails are smooth and free from bolt heads or rivet heads.

Drilling or welding to frame permitted only if specifically allowed by manufacturer.

If required, submit drawing to Fleet Services Manager for approval before installation.

2.13 STANDARD EQUIPMENT AND ACCESSORIES Back up alarm, horn type.

2.14 OPTIONS TO BE FURNISHED

If Code Number is specified equip with applicable item as described in City Specification No. 8-100.

2.15 PAINTING

Body, tailgate, allied equipment, and non-chrome plated exposed accessories to be primed and painted according to industry standards to protect from corrosion.

Equipment to be painted to match body and cab colors per City Standard Color Specification No. 9-595. Work shall be performed in a first class manner presenting a smooth, durable, lustrous finish.

2.16 TRAINING

If required, furnish trained technician for at least the number of working days specified to fully instruct assigned City personnel on the operation and maintenance of unit.

2.17 DELIVERY

Assembled, serviced, and ready for operation.

See also Paragraph 3, Deliver, City Standard Specification 8-1.

CITY OF CINCINNATI

Spec. No. 8-103-05

DIVISION OF PURCHASING

Date: SEPTEMBER 27, 2005

STANDARD SPECIFICATION

Title: AUTOMOTIVE TRUCK DUMP
BODIES

1. GENERAL REQUIREMENTS

1.1 SCOPE

This specification contains the Detailed Specifications for Automotive Dump Truck Bodies. Specification Number 8-101 covers the General Specifications and is made part hereof.

1.2 REFERENCE TO OTHER SPECIFICATIONS

Paragraph numbers in this specification correspond with the same paragraph numbers in Specification No. 8-101.

2. DETAILED REQUIREMENTS

2.1 DESIGN, TYPE, SIZE AND CAPACITY

Inside Body Width:	7 feet, no tolerance.
Inside body Length:	First 2 digits of body code, in feet.
Minimum Body Capacity Without Sideboards:	Last 2 digits of body code, in cubic yard.
Minimum Gauge, Sides:	10
Minimum Gauge, Floor or Bottom:	3 cu. yd. and 4 cu. yd. bodies – 10 GA. 5 cu. yd. and larger bodies 8 GA.

Unless otherwise specified, maximum top of vehicle frame to bottom of body dimensions 15 inches for 3, 4, and 5 cu. yd. bodies and 16 inches for 6 cu. yd. and larger bodies. Twelve inch overhang from privet point.

2.2 CONSTRUCTION

Continuous understructure rear cross member. Box type corner posts.

Provide for minimum 6 inch height sideboards. Sloping rub rails (running boards).

Double acting, reinforced tailgate, with heavy-duty gate hardware top and bottom, minimum 8 gauge.

Continuous welding throughout.

Floor and sides approximate 2 inch radius. Without wheel wells.

When lowered, tailgate level with body floor. All hardware of heavy cast or forged steel type.

Tailgate latch lever on driver's side at front of body and secured in closed position by means of a ring chained to body.

2.3 CONTROLS

Three position (up, hold, down) control lever for hydraulic valve with positive lock for stop or hold positions to prevent accidental engagement.

Dashboard mounted operating instruction plate.

2.4 POWER-TAKE-OFF

Code 27 electric controlled type in accordance with City Specification No. 8-100. Installation

approved by power-take-off and body manufacturers.

Dash mounted electric switch for hydraulic hoisting system. Body dumping angle minimum 50 degrees.

Hoist listed in latest edition of "Dump Body Hoist Chart" on the page for the particular class of hoist and body length as specified in the following table. This classification chart is issued by National Truck Equipment Association, Oak Park, Michigan 48237.

City Body Code	Hoist Class - Minimum
0803, 1003, 1004	30
1005, 1006, 1204, 1205	50
1206, 1406	60

1207, 1209, 1407, 1409	70
1210, 1211, 1410, 1411	80
1212, 1412	90

2.5 ELECTRICAL SYSTEM

All exposed wiring must be run through loom.

2.6 MANUFACTURERS AND DEALERS EMBLEMS

Install plate indicating name of manufacturer and mode number for body and hoist.

2.7 CHASSIS AND CAB

Metal spacers between chassis frame and body sill to accommodate bolt and rivet heads. If frame rails are smooth and free from bolt head and rivet heads, no metal spacers are required.

Metal spacers shall be continuous from front of body at cab to rear of frame to provide even load distribution.

2.8 STANDARD EQUIPMENT AND ACCESSORIES

Body Access Step: Install on curb side near cab. First Step approximately 26" off ground. The steps shall be fabricated using 3/8" x 5" steel plate sides with open type safety tread plate steps approximately 5" deep by 12" wide.

Welded construction.

Tarpaulin Hold Down: Weld at least 1/2 inch diameter steel rod, full length of body, on each side at approximately mid-height. (Can also serve as hand hold for access step).

Free standing (stationary) cab shield, for protection of rear of cab and part of cab roof, minimum 10 gauge, bolt on type.

Safety Prop: Shall be equipped with sturdy steel safety prop to support dump body while in the raised position.

2.9 OPTIONS TO BE FURNISHED

1. If Code No. 43 Tailgate Chute, asphalt is specified: Furnish in accordance with Drawing No. 615-B, attached.
2. Stop and turn signal lights- one of the following types as specified under "Requirements and Data" shall be furnished:

Type HMD - Mount stop, tail and turn lights high on rear side corner posts with at least 1/4 inch steel plate guards.

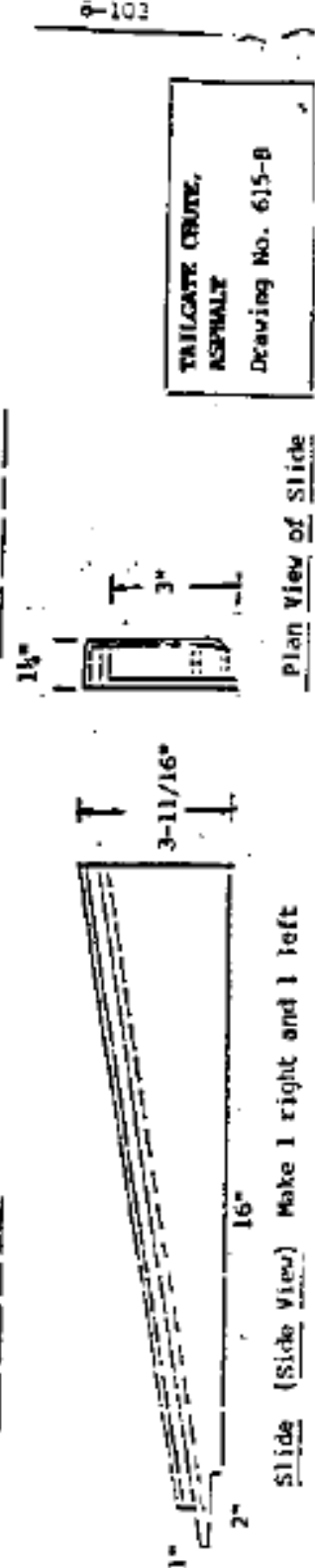
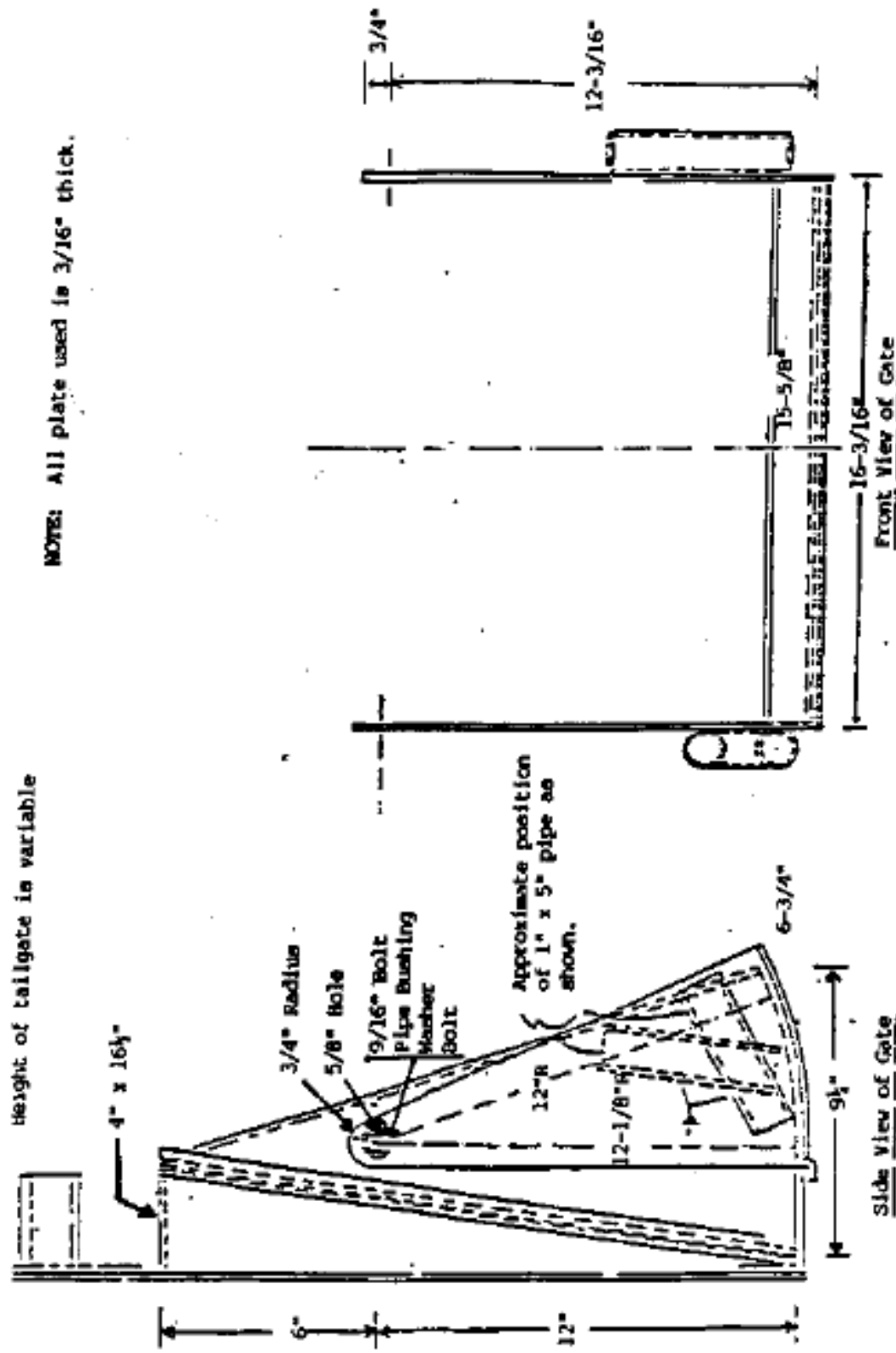
Type WW/MSD - Recess mount rectangular shaped stop, tail and turn lights, approximate size 6" x 2", midway in the rear corner posts of the dump body.

Note: These corner posts mounted lights shall be in addition to the truck manufacturer's standard frame rail mounted lights.

3. Coupler Gledhill # QCP or Henderson Model QCP (Hitch to be determined by chassis bid) quick coupler plow attachment carbon steel bar of 1-15/16" diameter formed in a "U" shape loop engage with the coupling hook (or approved equal).

Height of tailgate is variable

NOTE: All plate used is $3/16"$ thick.



TAILGATE CRUTE,
ASPHALT
Drawing No. 615-B

Plan View of Slide

Slide (Side View) Make 1 right and 1 left